

### Abstract of the Disclosure

A process for determining the alignment of a cylindrical body with respect to a reference direction by means of a measurement device which has a first and a second attachment area and a position measurement probe which is calibrated to the reference direction and is made for detecting a first angle of rotation of the probe around a first axis fixed in space and a second angle of rotation of the probe around a second axis fixed in space. A first measurement and a second measurement is carried out at different areas of the body, the probe being swung in contact with the peripheral surface of the body relative to the first attachment area to measure a characteristic of the first and the second angle of rotation. A comparison of the characteristic of measurements is used to determine the alignment of the body with respect to the reference direction.